FIG. 1A

CDR1 CDR2 CDR3
EVQLLEQSGA EVRKPGSSVK VSCKASGGTF SGHVITWVRQ APGQGLEWMG ESIPIFGSAN YAQNYAQKFR DRVSIIADES TSTSFIELSN LRSDDTAVYY CARDPPRYCS AGRCYPGFFQ QWGQGTLVTV SS

FIG. 1B

CDR1 CDR2 CDR3
EVQLLEQSGA EVKKPGSSVK VSCQVFGDTF SRYTIQWLRQ APGQGPEWMG NIIPVYNTPN YAQKFQGRLS ITADDSTSTA YMELSSLRSE DTAVYFCARV VIPNAIRHTM GYYFDYWGQG TLVTVSS

FIG. 1C

CDR1 CDR2 CDR3
EVQLLEQSGA EVKKPGSSVK VSCKASGGTF SGHVISWVRQ APGQGLEWMG GSISFFGTSN SAQKFQGRVS ITADESASTA YMELSSLRSE DTAIYYCAKD PPRECSGGNC YPGFFQQWGQ GTLVTVSS

FIG. 1D

CDR1 CDR2 CDR3
EVQLLESGGG VVQPGRSLRL SCAASGFTFK TYGMHWVRQA PGKGLEWVAG ISFDGSNQYY ADSVKGRFIV SRDNSRDTVF LQMSSLRLED TAVYYCATEG SPFGSIKGRY YLENWGQGTL VTVSS

FIGURE 1E

CDR 1 CDR 2
EVQLLESGGG VVQPGRSLRL SCAASGFTFS AYGMHWVRQA PGKGLEWVAG IWFDGSNQYYSDSVKGRFTV -

CDR 3
SRDNSRNTLF LQMNSLRPED TAVYYCATEV LFGSIKGRYY LENWGQGTLVTVSS

FIGURE 1F

CDR 1 CDR 2
EVQLLESGPG LVKPSGTLSL TCTVSGGSIR SSHWWSWVRQ PPGKGLEWIG EVFFSGSTIYNPSLNDRVFM -

CDR 3
SVDKSKDQVS LRLSSVTAAD TAVYYCARSP IKMNQGRMML DAFDIWGQGTLVIVSS

FIGURE 1G

CDR 1 CDR 2
EVQLLESGSE VKKPGSSVKV SCRASGGSFR SYNFNWVRQA PGQGLEWMGG IIPMFGTANYAQKFQGRVTI -

CDR 3
TADESTATGY MELSSLRSED TAVYYCAMPY PKHCSRGSCW GWFDPWGQGTLVTVSS

FIG. 2A

CDR1 CDR 2 CDR3

AELTQSPGTL SLSPGERATL SCRASQSVSS NYLAWYQQRP GQAPRLLIYG ASSRATGIPD RFSGSGSGTD FTLTISRLEP EDFAVYYCQL YGNSRWTFGQ GTKVEIK

CDR 1 CDR 2 CDR3

AELTQSPATL SLSPGERATL SCRASQSVNK YLAWYQQKPG QAPRLLIYDA SNRATGIPAR FSGSGSGTDF TLTISNLEPE DFAVYYCQQR SDWVTFGGGT KVEIK

FIG. 2B

FIG. 2C

CDR1 CDR 2 CDR3

AELTQSPGTL SLSPGERATL SCGASQSVRS NYLAWYQQKP GQAPRLLIYG VSSRATGIPD RFSGSGSGTD FTLTISRLEP EDFAVYYCQQ YGSSPRTFGQ GTKLEIK

CDR 1 CDR 2 CDR3

AELTQSPATL SVSPGERASL SCRASQSVGN NLAWYQQKPG QAPRLLIYGG NTRATGTPDR FSGSGSGTEF TLTISSLQSE DFAVYFCQHY STWPLTFGGG TKVEFK

FIG. 2D

FIGURE 2E

CDR 1 CDR 2
AELTQSPGTL SLSVGERATL SCRASQNIYS GYLGWYQQKP GQPPRLLIYG ASNRATGIPD

CDR 3
- RFSGSGSGTD FTLTISRLES EDFAVYYCQQ YGSPPYTFGQ GTKVEIK

FIGURE 2F

CDR 1 CDR 2
AELTQSPSSL SAFVGDRVTI TCRASQSISR NLNWYQQKPG TAPKVLIYAA SSLQSGVPSR

CDR 3
- FSGSGSGTDF TLTITSLQPE DFATYYCQQS YTTPRTFGQG TKVEVK

FIGURE 2G

CDR 1 CDR 2
AELTQSPGTL SLSPGERATL SCRASQSLSS KYLAWYQQKP GQAPRLFIYD ASSRATGIPD

CDR 3
- RFSGSGSGTD FTLSISRLEP EDFAVYYCQQ YGTPRTFGQG TKVEIK

FIG. 3A

GAGCTCACGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCAGGGCCA
GTCAGAGTGT TAGCAGCAAT TACTTAGCCT GGTACCAGCA GAGACCTGGC CAGGCTCCCA GGCTCCTCAT
CTATGGTGCA TCCAGCAGGG CCACTGGCAT CCCAGACAGG TTCAGTGGCA GTGGGTCTGG GACAGACTTC
ACTCTCACCA TCAGCAGACT GGAGCCTGAA GATTTTGCAG TGTATTACTG TCAGCTTTAT GGTAACTCAC
GTTGGACGTT CGGCCAAGGG ACCAAGGTGG AGATCAAA

GAGCTCACTC AGTCTCCAGC CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCAGGGCCA
GTCAGAGTGT TAACAAGTAC TTAGCCTGGT ACCAACAGAA ACCTGGCCAG GCTCCCAGGC TCCTCATCTA
TGATGCATCC AACAGGGCCA CTGGCATCCC AGCCAGGTTC AGTGGCAGTG GGTCTGGGAC AGACTTCACT
CTCACCATCA GCAACCTAGA GCCTGAAGAT TTTGCAGTTT ATTACTGTCA GCAGCGTAGC GACTGGGTCA
CTTTCGGCGG AGGGACCAAG GTGGAGATCA AA

FIG. 3B

FIG. 3C

GAGCTCACGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCGGGGCCA
GTCAGAGTGT TAGGAGCAAC TACTTAGCCT GGTACCAGCA AAAACCTGGC CAGGCTCCCA GGCTCCTCAT
CTATGGTGTA TCCAGCAGGG CCACTGGCAT CCCAGACAGG TTCAGTGGCA GTGGGTCTGG GACAGACTTC
ACTCTCACCA TCAGCAGACT GGAGCCTGAA GATTTTGCAG TGTATTACTG TCAGCAGTAT GGTAGCTCAC
CTCGGACTTT TGGCCAGGGG ACCAAGTTGG AGATCAAA

GAGCTCACGC AGTCTCCAGC CACCCTGTCT GTGTCTCCAG GGGAAAGAGC CTCCCTCTCC TGCAGGGCCA
GTCAGAGTGT CGGTAACAAT TTAGCTTGGT ATCAGCAGAA ACCTGGCCAG GCTCCCAGGC TCCTCATTTA
TGGTGGAAAC ACCAGAGCCA CTGGTACCCC AGACAGGTTC AGTGGCAGTG GGTCTGGGAC AGAATTCACT
CTCACCATCA GCAGCCTGCA GTCTGAGGAC TTTGCAGTTT ATTTCTGTCA ACACTATAGT ACCTGGCCGC
TCACTTTCGG CGGGGGGACC AAGGTCGAGT TCAAG

FIG. 3D

FIGURE 3E

GAGGTGCAGC TGCTCGAGTC TGGGGGAGGC GTGGTCCAGC CTGGGAGGTC CCTGAGACTC TCCTGTGCAG
CGTCTGGATT CACCTTCAGT GCTTATGGCA TGCACTGGGT CCGCCAGGCT CCAGGCAAGG GGCTGGAGTG
GGTGGCAGGT ATATGGTTTG ATGGAAGTAA TCAATACTAT TCAGACTCCG TGAAGGGCCG ATTCACCGTC
TCCAGAGACA ATTCCAGGAA CACGCTGTTT CTGCAAATGA ACAGCCTGAG ACCCGAGGAC ACGGCTGTCT
ATTACTGTGC GACAGAGGTA CTTTTTGGAT CGATTAAGGG GCGTTACTAC CTTGAAAACT GGGGCCAGGG
AACCCTGGTC ACCGTCTCCT CA

FIGURE 3F

GCGGAGCTCA CCCAGTCTCC ATCGTCCCTG TCTGCATTTG TNGGAGACAG AGTCACCATC ACTTGCCGGG
CAAGTCAGAG TATTAGCAGG AACTTAAATT GGTATCAGCA GAAACCAGGG ACAGCCCCTA AGGTCCTGAT
CTATGCTGCA TCCAGTTTGC AAAGTGGGGT CCCATCGAGG TTCAGTGGCA GTGGATCTGG GACAGATTTC
ACTCTCACCA TCACCAGTCT GCAACCTGAA GATTTTGCAA CTTACTATTG TCAACAGAGT TACACAACCC
CTCGGACGTT CGGCCAAGGG ACCAAGGTGG AAGTCAAA

FIGURE 3G

GCCGAGCTCA CGCAGTCTCC AGGCACCCTG TCTTTGTCTC CAGGGGAAAG AGCCACCCTC TCCTGCAGGG
CCAGTCAGAG TCTTAGCAGC AAATACTTAG CNTGGTACCA ACAGAAACCT GGCCAGGCTC CCAGGCTCTT
CATTTATGAT GCATCCAGCA GGGCCACTGG CATCCCAGAC AGGTTCAGTG GCAGTGGGTC TGGGACAGAC
TTCACTCTCA GCATCAGCAG ATTGGAGCCT GAAGATTTTG CAGTGTATTA CTGTCAGCAG TATGGAACAC
CTCGCACCTT CGGCCAGGGG ACCAAGGTGG AAATCAAA

FIG. 4A

CTCGAGCAGT CTGGGGCTGA GGTGAGGAAG CCTGGGTCCT CGGTGAAGGT CTCCTGCAAG GCTTCTGGAG
GCACCTTCAG CGGCCATGTT ATCACCTGGG TGCGACAGGC CCCTGGACAA GGACTTGAGT GGATGGGAGA
GAGCATCCCT ATCTTTGGTT CCGCAAACTA CGCTCAAAAC TACGCTCAGA AATTCCGGGA CAGAGTCTCG
ATTATCGCGG ACGAATCCAC GAGCACGTCG TTCATTGAGC TGAGCAACCT GAGATCTGAC GACACGGCCG
TCTACTACTG TGCGAGAGAC CCTCCAAGAT ATTGCAGTGC TGGTAGATGC TACCCGGGAT TCTTCCAGCA
GTGGGGCCAG GGCACCCTCG TCACCGTCTC CTCA

CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCCT CGGTGAAGGT CTCCTGTCAG GTTTTTGGAG
ACACCTTCAG CAGATACACT ATTCAGTGGT TGCGACAGGC CCCTGGACAA GGGCCTGAGT GGATGGGAAA
TATCATCCCT GTCTATAATA CACCAAACTA CGCGCAGAAG TTTCAGGGCA GACTCTCGAT AACCGCCGAC
GATTCCACGA GCACAGCCTA CATGGAACTG AGTAGCCTCA GATCTGAGGA CACGGCCGTC TATTTCTGTG
CGAGAGTCGT AATACCAAAT GCAATCCGGC ACACGATGGG ATATTACTTT GACTACTGGG GCCAGGGAAC
CCTGGTCACC GTCTCCTCA

FIG. 4B

FIG. 4C

CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCCT CAGTGAAGGT CTCCTGCAAG GCTTCTGGAG
GCACCTTCAG CGGCCATGTT ATCAGCTGGG TGCGACAGGC CCCTGGACAA GGGCTTGAGT GGATGGGGGG
GAGTATCTCT TTCTTTGGCA CATCAAACTC CGCACAGAAG TTCCAGGGCA GAGTCTCGAT TACCGCGGAC
GAATCCGCGA GCACAGCCTA CATGGAGCTG AGTAGCCTGA GATCGGAGGA CACGGCCATC TATTACTGTG
CGAAAGACCC TCCAAGATTT TGTAGTGGTG GTAACTGCTA CCCGGGGTTC TTCCAGCAGT GGGGCCAGGG
CACCCTGGTC ACCGTCTCCT CA

FIG. 4D

CTCGAGTCGG GGGGAGGCGT GGTCCAGCCT GGGAGGTCCC TGAGACTCTC CTGTGCAGCG TCTGGATTCA
CCTTCAAGAC GTATGGCATG CACTGGGTCC GCCAGGCTCC AGGCAAGGGG CTGGAGTGGG TGGCAGGTAT
TTCGTTTGAT GGAAGTAACC AATATTACGC AGACTCCGTG AAGGGCCGAT TCATCGTCTC CAGAGACAAT
TCCAGGGACA CGGTGTTTCT GCAGATGAGC AGCCTGAGAC TCGAGGACAC GGCTGTCTAT TACTGTGCGA
CAGAGGGTTC TCCTTTTGGC TCGATTAAGG GGCGTTACTA CCTTGAAAAT TGGGGCCAGG GAACCCTGGT
CACCGTCTCC TCA

FIGURE 4E

GAGGTGCAGC TGCTCGAGTC TGGGGGAGGC GTGGTCCAGC CTGGGAGGTC CCTGAGACTC TCCTGTGCAG
CGTCTGGATT CACCTTCAGT GCTTATGGCA TGCACTGGGT CCGCCAGGCT CCAGGCAAGG GGCTGGAGTG
GGTGGCAGGT ATATGGTTTG ATGGAAGTAA TCAATACTAT TCAGACTCCG TGAAGGGCCG ATTCACCGTC
TCCAGAGACA ATTCCAGGAA CACGCTGTTT CTGCAAATGA ACAGCCTGAG ACCCGAGGAC ACGGCTGTCT
ATTACTGTGC GACAGAGGTA CTTTTTGGAT CGATTAAGGG GCGTTACTAC CTTGAAAACT GGGGCCAGGG
AACCCTGGTC ACCGTCTCCT CA

FIGURE 4F

GAGGTGCAGC TGCTCGAGTC GGGCCCAGGA CTGGTGAAGC CTTCGGGGAC CCTGTCCCTC ACCTGCACTG
TCTCTGGTGG CTCCATCAGG AGCAGTCACT GGTGGAGTTG GGTCCGCCAG CCCCCAGGGA AGGGACTGGA
GTGGATTGGA GAAGTCTTTT TTAGTGGAAG CACCATCTAC AACCCATCCC TCAACGATCG AGTCTTCATG
TCTGTAGACA AGTCCAAGGA CCAGGTCTCC CTGAGGCTGA GCTCTGTGAC CGCCGCGGAC ACGGCCGTGT
ATTACTGTGC GAGATCCCCC ATAAAAATGA ATCAGGGAAG AATGATGTTG GATGCCTTTG ATATCTGGGG
CCAGGGGACA CTCGTCATCG TCTCTTCC

FIGURE 4G

GAGGTGCAGC TGCTCGAGTC TGGGTCTGAG GTGAAGAAGC CTGGGTCTTC GGTGAAGGTC TCCTGCAGGG
CCTCTGGAGG CAGCTTCAGA AGCTACAATT TCAATTGGGT GCGACAGGCC CCTGGACAAG GTCTTGAGTG
GATGGGAGGC ATCATCCCTA TGTTCGGAAC AGCAAACTAC GCACAGAAGT TTCAGGGCAG AGTCACAATT
ACCGCGGACG AATCCACGGC CACAGGCTAC ATGGAGTTGA GCAGTCTGAG ATCTGAAGAC ACGGCCGTTT
ATTACTGTGC GATGCCCTAT CCAAAACATT GCAGTCGTGG AAGTTGCTGG GGCTGGTTCG ACCCCTGGGG
CCAGGGAACT CTGGTCACCG TGTCTTCA